

# SERVICE MANUAL

STEREO AMPLIFIER  
**SANSUI AU-6600**



SANSUI ELECTRIC CO., LTD.

This service manual is designed for service engineers to repair, adjust, maintain and order the replacement parts of the AU-6600 correctly. When ordering the parts, use the stock number and parts name specifically referring to the Parts Locations & Parts Lists. For general usage and maintenance of the unit, please refer to the Operating Instructions attached with the unit.

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# 1. SPECIFICATIONS

**POWER OUTPUT (at rated distortion)**  
**CONTINUOUS RMS POWER OUTPUT**  
..... 42 Watts per channel  $\times 2$   
(both channels driven)

**LOAD IMPEDANCE** ..... 8Ω  
**POWER BAND** ..... 20 to 20,000Hz  
**TOTAL HARMONIC DISTORTION**  
..... less than 0.15% (from AUX)  
Music power (IHF) ..... 190W (4Ω 1,000Hz)  
120W (8Ω 1,000Hz)  
Continuous rms power output ..45+45W (8Ω 1,000Hz)

**INTERMODULATION DISTORTION (at rated power**  
output 70Hz: 7,000Hz=4: 1 SMPTE method)  
**OVERALL** ..... less than 0.15%  
**PREAMPLIFIER ONLY** ..... less than 0.1%  
**POWER (MAIN) AMPLIFIER ONLY**  
..... less than 0.1%

**FREQUENCY RESPONSE (at 1 Watt output)**  
**OVERALL** ..... 10 to 40,000Hz  $^{+0.5}_{-1}$  dB  
**POWER (MAIN) AMPLIFIER ONLY**  
..... 5 to 40,000Hz  $^{+0}_{-1}$  dB

**EQUALIZATION (RIAA curve)**  
..... 30 to 15,000Hz  $\pm 0.5$  dB

**DAMPING FACTOR** ..... 30 (8Ω)  
**INPUT SENSITIVITY AND IMPEDANCE**  
(1KHz, for rated power output)  
**PHONO** ..... 2.5mV 50KΩ  
(Max. input capability: 300mV at 0.2% total harmonic distortion)

**TUNER** ..... 100mV 50KΩ  
**AUX-1 & -2** ..... 100mV 50KΩ  
**TAPE DECK-1 & -2 (Pin Jacks)**....100mV 50KΩ  
**TAPE DECK-1 (DIN Socket)**.....100mV 50KΩ  
**MAIN IN** ..... 800mV 50KΩ

**OUTPUT LEVEL (1KHz)**  
**TAPE DECK-1 & -2 (Pin Jacks)**....100mV  
**TAPE DECK-1 (DIN Socket)**.....30mV  
**PRE OUT** ..... 800mV  
(Max. output level: 5V at 0.5% total harmonic distortion)

**CHANNEL SEPARATION (1KHz, at rated power output)**  
**PHONO** ..... better than 50dB  
**TUNER** ..... better than 55dB  
**AUX-1 & -2** ..... better than 55dB  
**TAPE DECK-1 & -2** ..... better than 55dB  
**MAIN IN** ..... better than 60dB

**HUM AND NOISE (IHF)**  
**PHONO** ..... better than 70dB  
**TUNER** ..... better than 85dB  
**AUX-1 & -2** ..... better than 85dB  
**TAPE DECK-1 & -2** ..... better than 85dB  
**MAIN IN** ..... better than 100dB

**SWITCHES AND CONTROLS**  
**BASS** ( $\pm 5$  steps) .....  $\pm 13$  dB at 50Hz  
**TONE SELECTOR (TURNOVER FREQUENCIES)**  
..... 300Hz, 600Hz  
**MIDRANGE** ( $\pm 5$  steps) ..  $\pm 5$  dB at 1KHz  
**TREBLE** ( $\pm 5$  steps) .....  $\pm 13$  dB at 15KHz  
**TONE SELECTOR (TURNOVER FREQUENCIES)**  
..... 2KHz, 4KHz  
**LOUDNESS (Volume Control: -30dB)**  
..... +10dB at 50Hz  
+8dB at 10KHz  
**LOW FILTER** ..... -3dB at 70Hz (6dB/oct.)  
**HIGH FILTER** ..... -3dB at 7KHz (6dB/oct.)  
**MUTING** ..... -20dB

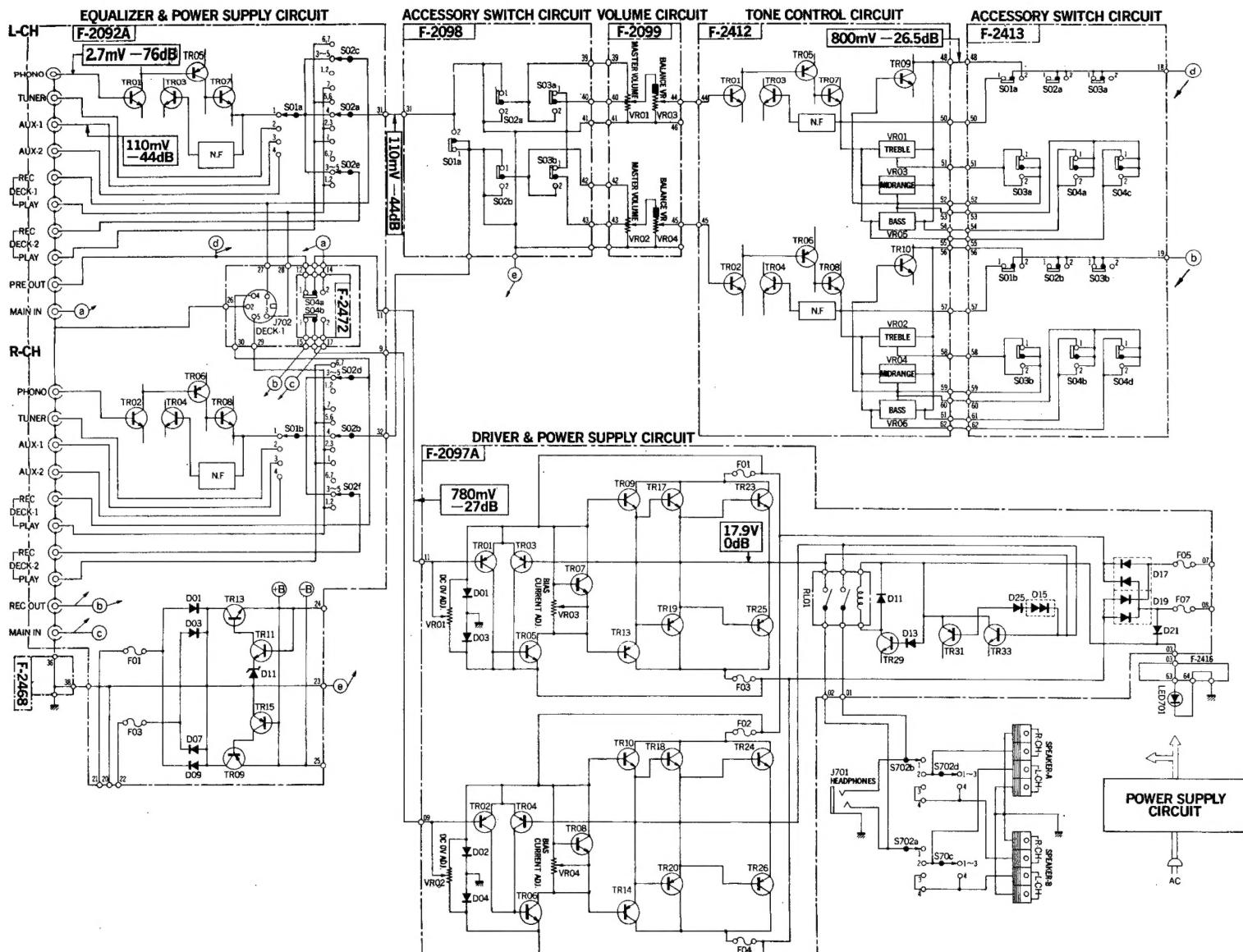
**OTHERS**  
**TRANSISTORS** ..... 45  
**DIODES** ..... 16  
**ZENER DIODES** ..... 3  
**LED** ..... 1

**POWER REQUIREMENTS**..100, 117, 220, 240V, 50/60Hz  
**POWER CONSUMPTION**..90W (rated), 260W (max.)  
**DIMENSIONS** ..... 434mm (17  $\frac{1}{8}$ ) W  
130mm (5  $\frac{1}{8}$ ) H  
315mm (12  $\frac{1}{16}$ ) D

**WEIGHT** ..... 11.3Kg (24.9 lbs) Net  
13.0Kg (28.7 lbs) Packed

\* Design and specifications subject to change without notice for improvements.

## 2. BLOCK DIAGRAM AND VALUE OF EACH LEVEL



S01a, b:  
SELECTOR (F-2092A)

S02a~f:  
TAPE PLAY (F-2092A)

S04a, b:  
PRE-MAIN (F-2472)

S03a, b:  
LOUDNESS (F-2098)

S01a, b:  
TONE (F-2413)

S04a~d:  
TONE SELECTOR (F-2413)

S701:

POWER

1. OFF

2. ON

S702a~c:  
SPEAKERS

1. OFF

2. A

3. B

4. A+B

S01a, b:  
SELECTOR (F-2098)

S02a, b:  
MUTING (F-2098)

S02a, b:  
HIGH FILTER (F-2413)

S02a, b:  
LOW FILTER (F-2413)

S05a, b:  
POWER CIRCUIT

AC

### 3. ADJUSTMENT

#### 3-1. Driver Circuit Board Adjustment (See Fig. 3-1 and 3-2)

Note:

1. Confirm the AC power supply voltage.
2. MASTER VOLUME .....Minimum
3. SPEAKERS Selector .....A
4. Make the SP terminals free (no load).
5. For adjustment, run the unit for more than 3 minutes after the power is switched ON.
6. Room temperature should be 18~28°C (65~83°F) for bias current adjustment.

STEP	SUBJECT	EQUIPMENT	MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
1	DC OV L-ch	DC volt meter	SP terminal L-ch (See Fig. 3-2)	F-2097A VR01	0V±10mV	Turn volumes of VR03, VR04 CCW
2	DC OV R-ch	Same as above	SP terminal R-ch (See Fig. 3-2)	F-2097A VR02	Same as above	
3	Bias current L-ch	DC milliammeter	F-2097A F01 (See Fig. 3-1)	F-2097A VR03	25±10mA	Step down meter's range accordingly
4	Bias current R-ch	Same as above	F-2097A F02 (See Fig. 3-1)	F-2097A VR04	Same as above	

Fig. 3-1

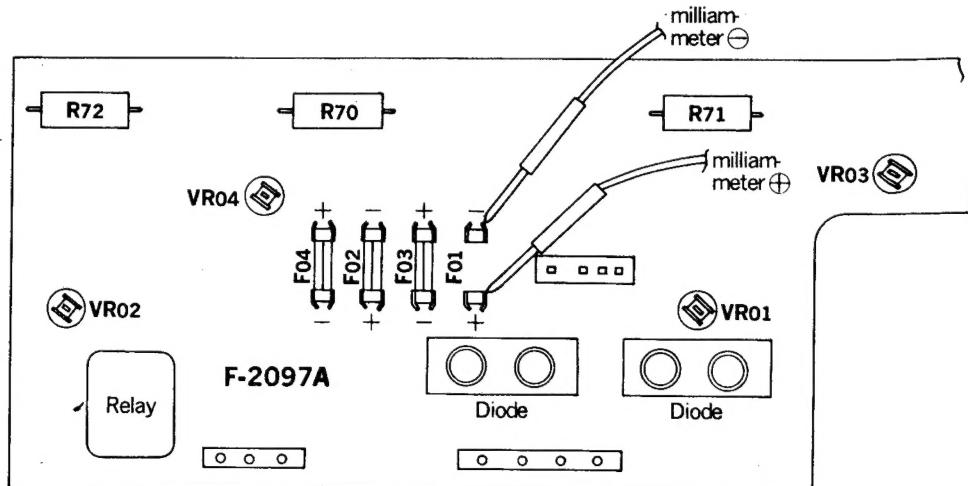
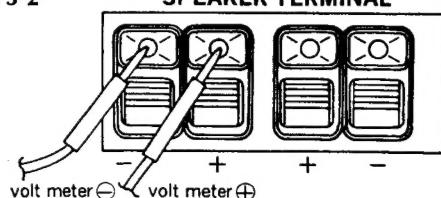


Fig. 3-2



#### Condition of Level Measuring

\*Value of each level in block diagram was measured by the followings.

1. MASTER VOLUME control .....Maximum
2. BASS, MIDRANGE, TREBLE & BALANCE volume controls .....Center
3. TONE & FILTER switch control.....IN
4. Input .....PHONO-1 2.7mV 1kHz Sine Wave  
AUX-1, 2 110mV 1kHz Sine Wave

(output impedance of  $600\Omega$  at an audio oscillator)

5. Output .....17.9V (40W)  $8\Omega$

**Note:** Each voltage value is for reference and measured by a VTVM. In some recorders, the actual voltage value is in minor difference from the reference value.

## 4. TROUBLESHOOTING CHART

### 4-1. Troubleshooting on Power Supply Section

Symptom	Check Point	Cause & What to Do
<b>1. No power supplied to each section</b>		
1-1. Indicator lamp for power not lighted		<ul style="list-style-type: none"> <li>1. Power supply cord open</li> <li>2. Imperfect contact of power switch, S701</li> <li>3. Power fuse, F701 open</li> <li>4. Defective power transformer, T701</li> <li>5. F07 on F-2097A open</li> <li>6. Defective D21 on F-2097A</li> <li>7. Imperfect contact of voltage selector, PU01</li> </ul>
1-2. Indicator lamp for power lighted		
1) $\pm 40V$ not supplied to collector on each power transistor (+40V, TR23, TR24, -40V, TR25, TR26)		<ul style="list-style-type: none"> <li>8. F05 or F07 on F-2097A open</li> <li>9. Defective D17 or D19 on F-2097A</li> </ul>
2) +24V not supplied to terminal [24] and -25V not supplied to terminal [25] on F-2092A		<ul style="list-style-type: none"> <li>10. Defective power transformer, T701</li> <li>11. F01 or F03 on F-2092A open</li> <li>12. Defective D01, D03, D07 or D09 on F-2092A</li> <li>13. Defective TR09, TR11, TR13 or TR15 on F-2092A</li> <li>14. Defective D11 on F-2092A</li> </ul>

### 4-2. Troubleshooting on Audio Section

#### 1. Quick acting fuse open

1-1. After replacement, F01 (F02) on F-2097A open again		<ul style="list-style-type: none"> <li>1. Defective TR23 (TR24) on F-2097A</li> <li>2. Defective TR09 or TR17 (TR10 or TR18) on F-2097A</li> </ul>
1-2. After replacement, F03 (F04) on F-2097A open again		<ul style="list-style-type: none"> <li>3. Defective TR25 (TR26) on F-2097A</li> <li>4. Defective TR13 or TR19 (TR14 or TR20) on F-2097A</li> </ul>
1-3. After replacement, fuse not open		
1) Bias current adjustable		<ul style="list-style-type: none"> <li>5. Set the bias current to +25mA by VR03 (VR04) on F-2097A (refer to 3. ADJUSTMENT on page 4)</li> </ul>
2) Bias current adjustable		<ul style="list-style-type: none"> <li>6. Defective VR03 (VR04) on F-2097A</li> <li>7. Defective TR05 or TR07 (TR06 or TR08) on F-2097A</li> </ul>
3) Center voltage adjustable		<ul style="list-style-type: none"> <li>8. Set the center voltage to 0V by VR01 (VR02) on F-2097A (refer to 3. ADJUSTMENT on page 4)</li> </ul>
4) Center voltage not adjustable		<ul style="list-style-type: none"> <li>9. Defective VR01 (VR02) on F-2097A</li> <li>10. Defective TR05 (TR06) on F-2097A</li> <li>11. Defective D01 or D03 (D02 or D04) on F-2097A</li> </ul>

Symptom	Check Point	Cause & What to Do
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## 2. TUNER or AUX inoperative

2-1. Both channels inoperative

- 1. Defective relay, RL01 on F-2097A
- 2. Imperfect contact of SPEAKERS switch, S702a, c (S702b, d)
- 3. Defective TR29, TR31 or TR33 on F-2097A
- 4. Defective D13, D23 or D25 on F-2097A
- 5. Defective Power Supply Section

2-2. One channel inoperative

※ Set MODE switch to MONO

- 1) Inoperative channel reverses
- 6. Tuner connected from this set has faulty
- 7. Imperfect contact of SELECTOR switch, S01a (S01b)
- 8. Imperfect contact of TAPE PLAY switch, S02a (S02b)
- 2) Inoperative channel not reverses

※ Set TONE switch to DEFEAT

  - 2-1) The inoperative channel becomes operating
  - 9. Defective TR09 (TR10) on F-2412
  - 2-2) The inoperative channel is still not operating
  - 10. Defective TR01, TR03, TR05 or TR07 (TR02, TR04, TR06 or TR08) on F-2412
  - 11. Imperfect contact of HIGH FILTER switch S02a (S02b)
  - 12. Imperfect contact of TONE SELECTOR switch, S03a (S03b)
  - 13. Imperfect contact of PRE-MAIN switch, S04a (S04b)
  - 14. Defective Driver & Power Supply circuit board

## 3. PHONO inoperative

3-1. Both channels inoperative

- 1. Refer to 2-1. of 2. Both channels inoperative

3-2. One channel inoperative

※ Set MODE switch to MONO

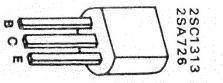
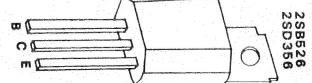
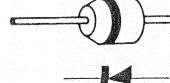
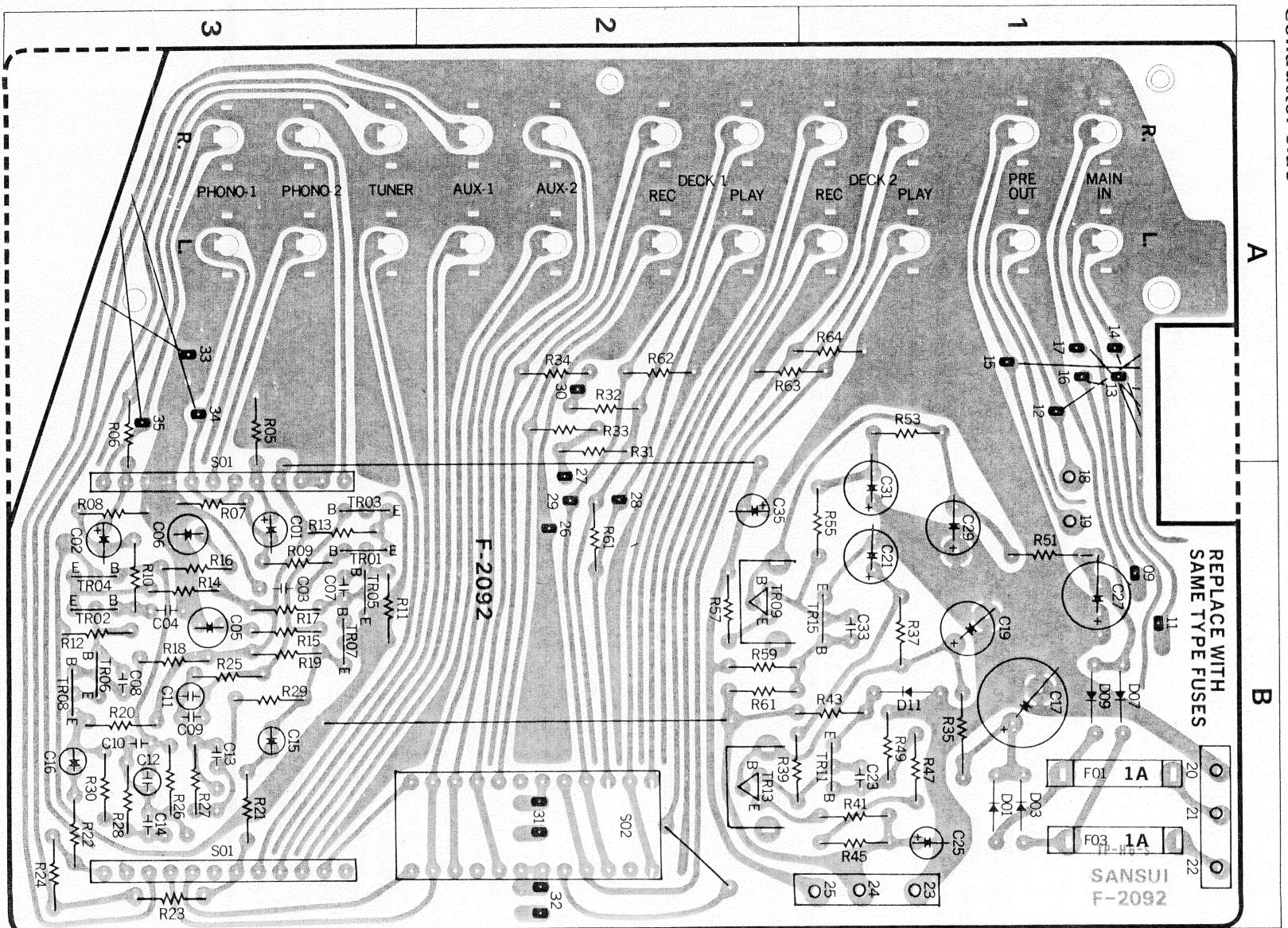
- 1) Inoperative channel reverses
- 2. Turntable connected from this set has faulty
- 3. Defective TR01, TR03, TR05 or TR07 (TR02, TR04, TR06 or TR08) on F-2092A
- 2) Inoperative channel not reverses
- 4. Refer to 2-2. of 2. One channel inoperative

## 5. PARTS LOCATIONS AND PARTS LISTS

### 5-1. F-2092A Equalizer & Power Supply Circuit Board

Conductor Side

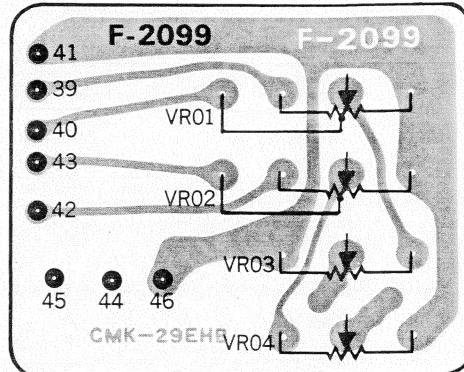
(Stock No. 7555590 Complete Circuit Board F-2092A)



## Parts List

Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position
TR01, 02	0306071, 2	2SC1313 ® (G, H)	3 B	R55	0107122	1.2kΩ	1 B
TR03, 04	0306071, 2	2SC1313 ® (G, H)	3 B	R57	0107330	33Ω	2 B
TR05, 06	0300470, 1	2SA726 ® (F, G)	3 B	R59	0107153	15kΩ	2 B
TR07, 08	0306070-2	2SC1313 ® (F, G, H)	Transistor 3 B	R61	0107153	15kΩ	2 B
TR09	0303280-2	2SB526 (C, D, E)	2 B	R61	0107474	470kΩ	1/4W C.R. 2 B
TR11	0306070-2	2SC1313 ® (F, G, H)	1 B	R62	0107474	470kΩ	2 A
TR13	0308450-2	2SD356 (C, D, E)	2 B	R63	0107474	470kΩ	1, 2 A
TR15	0300470, 1	2SA726 ® (F, G)		R64	0107474	470kΩ	1, 2 A
D01	0310340	10D-1	1 B	S01	1101540	SRE-1-2-4	3 B
D03	0310340	10D-1		S02	1102560	SRE-2-6-7	2, 3 B
D07	0310340	10D-1	Diode 1 B	F01	0430830	1A (20m/m)	1 B
D09	0310340	10D-1		F03	0430830	Fuse 1A (20m/m)	1 B
D11	0316316	RD13E(B)	1 B				
C01, 02	0519103	0.47μF 50V E.C.	2 B	2310150		Fuse Holder	
C03, 04	0660330	33pF 50V C.C.	2 B	2430250		Pin Jack	
C05, 06	0532100	10μF 16V BP.E.C.	2 B	5936691		Heat Sink	
C07, 08	0660470	47pF 50V C.C.	2 B				
C09, 10	0600826	0.0082μF 50V M.C.	2 B				
C11, 12	0621561	560pF 50V P.C.	2 B				
C13, 14	0600276	0.0027μF 50V M.C.	2 B				
C15, 16	0533339	3.3μF 25V E.C.	2 B				
C17	0515221	220μF 50V E.C.	1 B				
C19	0514101	100μF 35V E.C.	1 B				
C21	0515470	47μF 50V E.C.	1 B				
C23	0660221	220pF 50V C.C.	1 B				
C25	0513100	10μF 25V E.C.	1 B				
C27	0515101	100μF	1 B				
C29	0515470	47μF 50V E.C.	1 B				
C31	0515470	47μF	1 A, B				
C33	0660221	220pF 50V C.C.	1 B				
C35	0513479	4.7μF 25V E.C.	2 B				
C901, 902	0601107	0.01μF 50V M.C.					
C903, 904	0515339	3.3μF 50V E.C.					
C905, 906	0657223	0.022μF 50V C.C.					
C907, 908	0660101	100 pF					
R05, 06	0107683	68kΩ	3 A				
R07, 08	0107224	220kΩ	3 B				
R09, 10	0107152	1.5kΩ	3 B				
R11, 12	0107822	8.2kΩ	3 B				
R13, 14	0107124	120kΩ	3 B				
R15, 16	0107821	820Ω	3 B				
R17, 18	0107223	22kΩ	3 B				
R19, 20	0107472	4.7kΩ	3 B				
R21, 22	0107101	100Ω	3 B				
R23, 24	0107563	56kΩ	3 B				
R25, 26	0107474	470kΩ	3 B				
R27, 28	0107273	27kΩ	3 B				
R29, 30	0107561	560Ω	3 B				
R31, 32	0107104	100kΩ	2 A				
R33, 34	0107224	220kΩ	2 A				
R35	0104181	180Ω	1 W C.R.				
R37	0107272	2.7kΩ	1 B				
R39	0107821	820Ω	2 B				
R41	0107220	22Ω	1 B				
R43	0107821	820Ω	1, 2 B				
R45	0107392	3.9kΩ	1 B				
R47	0107471	470Ω	1 B				
R49	0107682	6.8kΩ	1 B				
R51	0103331	330Ω	1/2W C.R.				
R53	0107392	3.9kΩ	1/4W C.R.				

## 5-2. F-2099 Volume Circuit Board Conductor Side



## Parts List

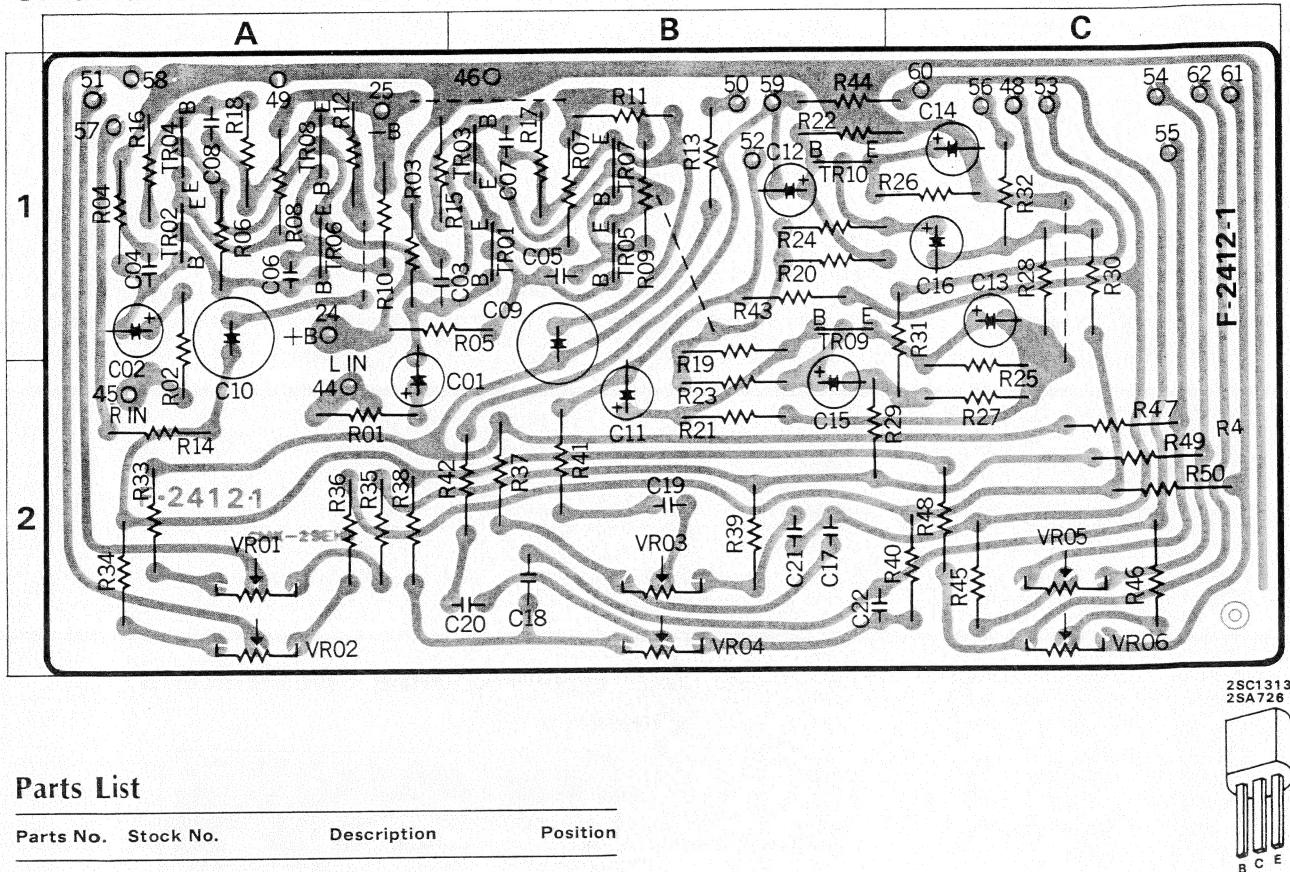
Parts No.	Stock No.	Description
VR01~04	1060320	250kΩ (MN, B) × Volume

### Abbreviations

C.R.	: Carbon Resistor	B.P.E.C.:	Bi-Polar Electrolytic Capacitor
S.R.	: Solid Resistor	C.C. :	Ceramic Capacitor
Ce.R.	: Cement Resistor	M.i.C. :	Mica Capacitor
M.R.	: Metallized Film Resistor	O.C. :	Oil Capacitor
M.C.	: Mylar Capacitor	P.C. :	Polystyrene Capacitor
E.C.	: Electrolytic Capacitor	T.C. :	Tantalum Capacitor

**5-3. F-2412 Tone Control Circuit Board** (Stock No. 7560830 Complete Circuit Board F-2412)

**Conductor Side**



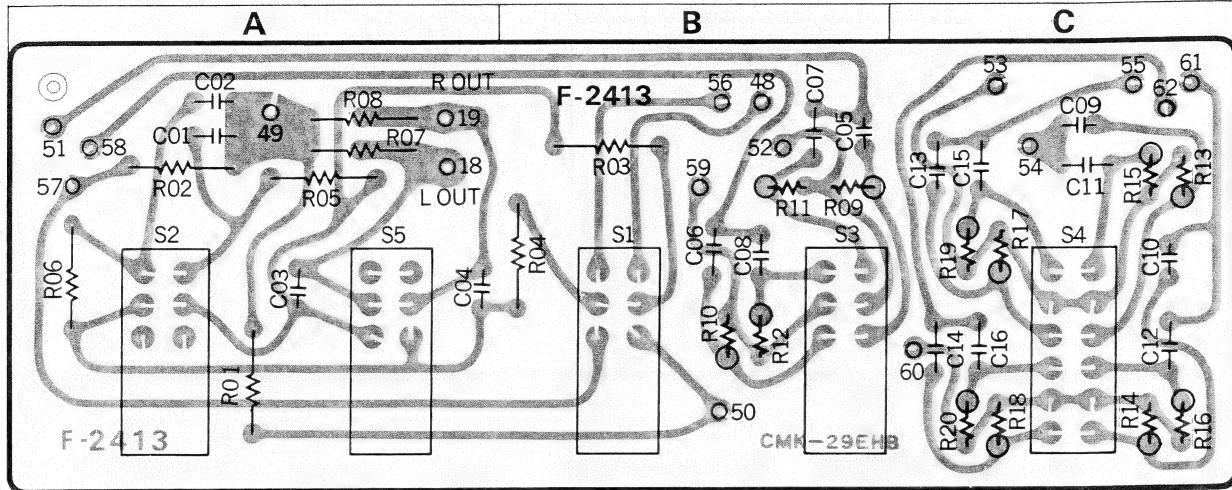
**Parts List**

Parts No.	Stock No.	Description	Position
TR01, 02	0306070, 1	2SC1313® (F, G)	1 B. 1 A
TR03, 04	0306070, 1	2SC1313® (F, G)	1 B. 1 A
TR05, 06	0300470, 1	2SA726 (W) (F, G)	Transistor 1 B. 1 A
TR07, 08	0306070, 1	2SC1313® (F, G)	1 B. 1 A
TR09, 10	0306070, 1	2SC1313® (F, G)	1 B
C01, 02	0519103	0.47μF 50V E.C.	1.2A. 1 A
C03, 04	0660330	33pF } 50V C.C.	1 A
C05, 06	0660220	22pF } 50V C.C.	1 B. 1, 2B
C07, 08	0660680	68pF }	1 B. 1 A
C09, 10	0533220	22μF 25V BP.E.C.	1 A. 1, 2A
C11, 12	0519101	1μF 50V E.C.	2 B. 1 B
C13, 14	0510470	47μF 6.3V E.C.	1 C
C15, 16	0519001	10μF 25V E.C.	2 B. 1 C
C17, 18	0601686	0.0068μF }	2 B
C19, 20	0601476	0.0047μF }	2 B
C21, 22	0601686	0.0068μF } 50V M.C.	2 B
C901, 902	0601107	0.01μF }	
C903, 904	0660150	15pF } 50V C.C.	
C905	0657223	0.022μF }	
R01, 02	0107222	2.2kΩ }	2 A. 1, 2A
R03, 04	0107124	120kΩ }	1 A
R05, 06	0107822	8.2kΩ }	1A. B. 1 A
R07, 08	0107124	120kΩ }	1 B. 1 A
R09, 10	0107223	22kΩ } 1/4W C.R.	1 B. 1 A
R11, 12	0107472	4.7kΩ }	1 B. 1 A
R13, 14	0107101	100Ω }	1 B. 2 A
R15, 16	0107222	22kΩ }	1 A
R17, 18	0107183	18kΩ }	1 B. 1 A

Parts No.	Stock No.	Description	Position
R19, 20	0107334	330kΩ }	1 B
R21, 22	0107683	68kΩ }	2 B. 1B, C
R23, 24	0107222	2.2kΩ }	2 B. 1 B
R25, 26	0107471	470Ω }	2 C. 1B, C
R27, 28	0107104	100kΩ }	2 C. 1 C
R29, 30	0107101	100Ω }	2 B. 1 C
R31, 32	0107101	100Ω }	1, 2C. 1C
R33, 34	0107272	2.7kΩ }	2 A
R35, 36	0107272	2.7kΩ }	2 A
R37, 38	0107472	4.7kΩ }	2 B. 2 A
R39, 40	0107472	4.7kΩ }	2 B. 2 C
R41, 42	0107273	27kΩ }	2 B
R43, 44	0107223	22kΩ }	1 B. 1B, C
R45, 46	0107471	470Ω }	2 C
R47, 48	0107822	8.2kΩ }	2 C
R49, 50	0107822	8.2kΩ }	2 C
VR01, 02	1015110, 1	50kΩ (B) × 2 }	2 A
VR03, 04	1015110, 1	50kΩ (B) × 2 }	2 B
VR05, 06	1015110, 1	50kΩ (B) × 2 }	2 C

## **5-4. F-2413 Accessory Switch Circuit Board (Stock No. 7592150 Complete Circuit Board F-2413)**

## Conductor Side



## Parts List

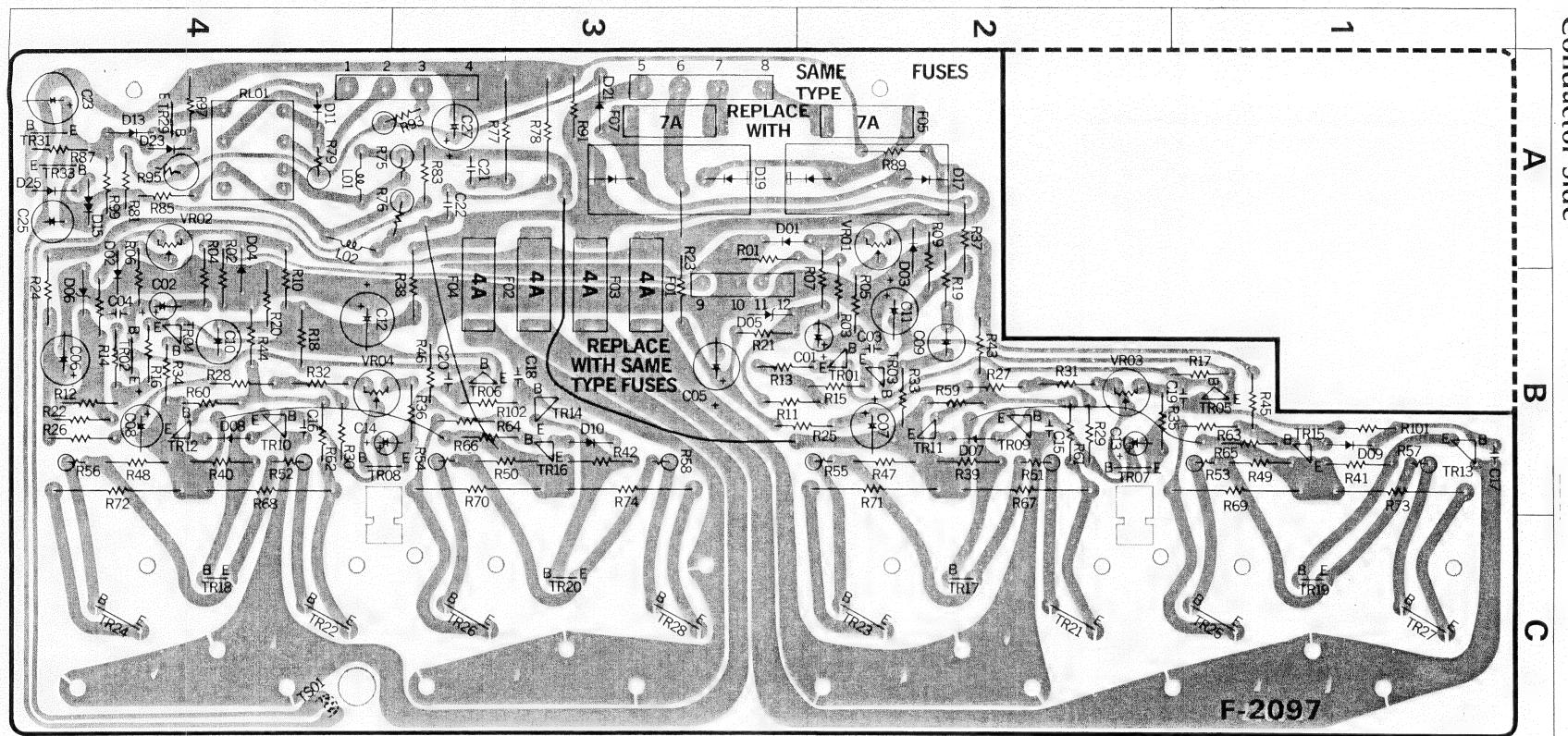
Parts No.	Stock No.	Description	Position
C01,02	0601686	0.0068 $\mu$ F	A
C03,04	0601477	0.047 $\mu$ F	A
C05,06	0601226	0.0022 $\mu$ F	B
C07,08	0601126	0.0012 $\mu$ F	B
C09,10	0601686	0.0068 $\mu$ F	B
C11,12	0601227	0.022 $\mu$ F	B
C13,14	0601686	0.0068 $\mu$ F	B
C15,16	0601227	0.022 $\mu$ F	B
R01,02	0107104	100k $\Omega$	A
R03,04	0107332	3.3k $\Omega$	B
R05,06	0107824	820k $\Omega$	A
R07,08	0107104	100k $\Omega$	A
R09,10	0106105	1M $\Omega$	B
R11,12	0106105	1M $\Omega$	B
R13,14	0106105	1M $\Omega$	B
R15,16	0106105	1M $\Omega$	B
R17,18	0106105	1M $\Omega$	C. B
R19,20	0106105	1M $\Omega$	B
S01-03	1170340	SX15-5	
S04	1170360	SX15-7	Lever Switch
S05	1170340	SX15-5	C

## Abbreviations

C.R. :	Carbon Resistor	B.P.E.C. :	Bi-Polar Electrolytic
S.R. :	Solid Resistor		Capacitor
Ce.R. :	Cement Resistor	C.C. :	Ceramic Capacitor
M.R. :	Metallized Film	Mi.C. :	Mica Capacitor
	Resistor	O.C. :	Oil Capacitor
M.C. :	Mylar Capacitor	P.C. :	Polystyrene Capacitor
F.C. :	Electrolytic Capacitor	T.C. :	Tantalum Capacitor

## 5-5. F-2097A Driver & Power Supply Circuit Board

(Stock No. 750920 Complete Circuit Board F-2097A)



## Parts List

Parts No.	Stock No.	Description	Position
TR01, 02	0300470, 1	2SA726 (F, G)	2 B . 4 B
TR03, 04	0300470, 1	2SA726 (F, G)	2 B . 4 B
TR05, 06	0305900, 1	2SC1124 (1, 2)	1 B . 3 B
TR07, 08	0305731~3	2SC711 (E, F, G)	2 B . 3, 4 B
TR09, 10	0305742, 3	2SC959 (L, K)	2 B . 4 B
TR13, 14	0300212, 3	2SA606 (L, K)	1 B . 3 B
TR17, 18	0308441, 2	2SD382 (M, L)	2 C . 4 C
TR19, 20	0303271, 2	2SB537 (M, L)	1 C . 3 C
TR23, 24	0305701	2SC898 (B)	2 C . 4 C
TR25, 26	0300671, 2	2SA758 (B, C)	1 C . 3 C
TR29	0306130~2	2SC1364 (5, 6, 7)	4 A
TR31	0300510~2	2SA733 (P, Q, R)	4 A
TR33	0305950~2	2SC945 (R, Q, P)	4 A
D01, 02	0340090	DS-430	2,3A,4,A,B
D03, 04	0340090	DS-430	2A,B,4,A,B
D05, 06	0316230	RD-9.1E(B)	3 B . 4 B
D11	0310340	10D-1	4 A
D13	0311050	1S953	4 A
D15	0310490	SV-02	4 A
D17	0311290	SS-3	2 A
D19	0311300	SS-3R	3 A
D21	0310340	10D-1	3 A
D23	0310331	1N60	4 A
D25	0340090	DS-430	4 A
C01, 02	0519101	1 $\mu$ F 50V E.C.	2 B . 4 B
C03, 04	0660470	47pF 50V C.C.	2 B . 4 B
C05, 06	0515101	100 $\mu$ F } 50V E.C.	3 A . 4 B
C07, 08	0515470	47 $\mu$ F } 50V E.C.	2 B . 4 B
C09, 10	0530470	47 $\mu$ F 6.3V E.C.	2 B . 4 B
C11, 12	0515101	100 $\mu$ F } 50V E.C.	2 B . 4 B
C13, 14	0515109	1 $\mu$ F } 50V E.C.	2 B . 4 A, B
C15, 16	0660100	10pF } 50V C.C.	2 B . 4 B
C17, 18	0660100	10pF } 50V C.C.	1 B . 3 A
C19, 20	0660220	22pF }	1 B . 3 A
C21, 22	0601687	0.068 $\mu$ F 50V M.C.	3 A
C23	0510471	470 $\mu$ F 6.3V E.C.	4 A
C25	0531101	100 $\mu$ F 10V E.C.	4 A
C27	0515330	33 $\mu$ F 50V E.C.	3 A
C901	0601106	0.001 $\mu$ F } 50V M.C.	
C902, 903	0601107	0.01 $\mu$ F }	
R01, 02	0107474	470k $\Omega$	3 A . 4 A, B
R03, 04	0107103	10k $\Omega$	2A,B,4,A,B
R05, 06	0107104	100k $\Omega$	2 B . 4 A, B
R07, 08	0107822	8.2k $\Omega$	2A,B,4,B
R09, 10	0107393	39k $\Omega2A,B,4,A,B$	2A,B,4,A,B
R11, 12	0107332	3.3k $\Omega$	2, 3B . 4 B
R13, 14	0107100	10 $\Omega$	2, 2B . 4 B
R15, 16	0107100	10 $\Omega$	2 B . 4 B
R17, 18	0107821	820 $\Omega$	1, 2 B . 4 B
R19, 20	0107332	3.3k $\Omega$	2A, B . 4 B
R21, 22	0103472	4.7k $\Omega$	3 B . 4 B
R23, 24	0103181	180 $\Omega$	3A,B,4,A,B
R25, 26	0103102	1k $\Omega$	2,3 B . 4 B
R27, 28	0103472	4.7k $\Omega$	2 B . 4 B
R29, 30	0107390	39 $\Omega$	2 B . 4 B
R31, 32	0107682	6.8k $\Omega$	2 B . 4 B
R33, 34	0107582	82k $\Omega$	2 B . 4 B
R35, 36	0107122	1.2k $\Omega$	2 B . 3 B
R37, 38	0103101	100 $\Omega$	2A,B,3AB
R39, 40	0103102	1k $\Omega$	2 B . 4 B

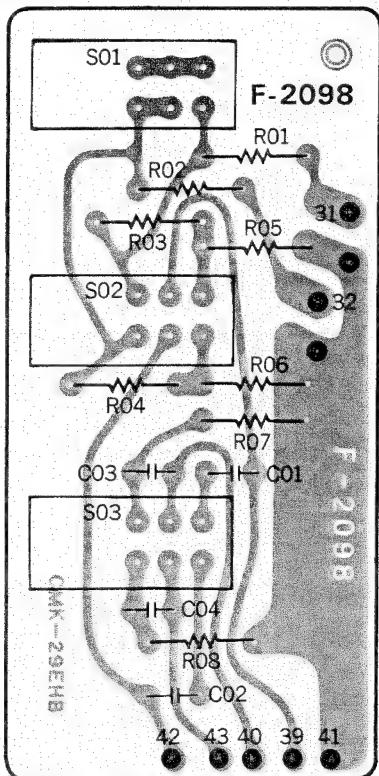
Parts No.	Stock No.	Description	Position
R41, 42	0103102	1k $\Omega$ } $\frac{1}{2}$ W C.R.	1 B . 3 B
R47, 48	0103101	100 $\Omega$ } 100 $\Omega$ } $\frac{1}{2}$ W C.R.	2 B . 4 B
R49, 50	0103101	100 $\Omega$ } 10 $\Omega$ } $\frac{1}{2}$ W C.R.	1 B . 3 B
R53, 54	0103100	10 $\Omega$ } 10 $\Omega$ }	1 B . 3 B
R55, 56	0103100	10 $\Omega$ }	2 B . 4 B
R69, 70	0133478	0.47 $\Omega$ } 3W Ce.R.	1,2 B . 3B
R71, 72	0133478	0.47 $\Omega$ } 3W Ce.R.	2 B . 4 B
R75, 76	0104479	4.7 $\Omega$ 1W C.R.	3 A
R77, 78	0105100	10 $\Omega$ 2W C.R.	3 A
R79	0104181	180 $\Omega$ 1W C.R.	4 A
R81	0107823	82k $\Omega$ }	4 A
R83	0107823	82k $\Omega$ } $\frac{1}{4}$ W C.R.	3 A
R85	0107104	100k $\Omega$ } $\frac{1}{4}$ W C.R.	4 A
R87	0107473	47k $\Omega$ }	4 A
R89	0103562	5.6k $\Omega$ } $\frac{1}{2}$ W C.R.	2 A
R91	0103562	5.6k $\Omega$ }	3 A
R93	0105182	1.8k $\Omega$ } 2W C.R.	3, 4 A
R95	0105182	1.8k $\Omega$ }	4 A
R97	0107221	220 $\Omega$ }	4 A
R99	0107223	22k $\Omega$ } $\frac{1}{4}$ W C.R.	4 A
R909	0107102	1k $\Omega$ }	
RL01	1150251	RABK-2B Relay	4 A
L101, 102	4290210	2.5 $\mu$ H Micro Inductor	4 A, B
VR01, 02	1035110	4.7k $\Omega$ (B) } Semi Variable	2 A
VR03, 04	1035070	1k $\Omega$ (B) }	2 B . 3, 4 B
F01~04	0433630	4A Quick Acting Fuse	3 A, B
F05, 07	0430920	7A 20m/m Power Fuse	2 A, 3 A
	5937061	Heat Sink	
	2310150	Fuse Holder	

**Abbreviations**

C.R.	: Carbon Resistor	B.P.E.C.	: Bi-Polar Electrolytic Capacitor
S.R.	: Solid Resistor	C.C.	: Ceramic Capacitor
Ce.R.	: Cement Resistor	Mi.C.	: Mica Capacitor
M.R.	: Metallized Film Resistor	O.C.	: Oil Capacitor
M.C.	: Mylar Capacitor	P.C.	: Polystyrene Capacitor
E.C.	: Electrolytic Capacitor	T.C.	: Tantalum Capacitor

## 5-6. F-2098 Accessory Switch Circuit Board

(Stock No. 7592170 Complete Circuit Board F-2098)  
Conductor Side



### Parts List

Parts No.	Stock No.	Description
C01, 02	0660391	390 pF 50V C.C.
C03, 04	0601227	0.022 $\mu$ F 50V M.C.
R01, 02	0107103	10k $\Omega$
R03, 04	0107474	470k $\Omega$
R05, 06	0107823	82k $\Omega$
R07, 08	0107223	22k $\Omega$
S01-03	1170340	SX15-5 Lever Switch

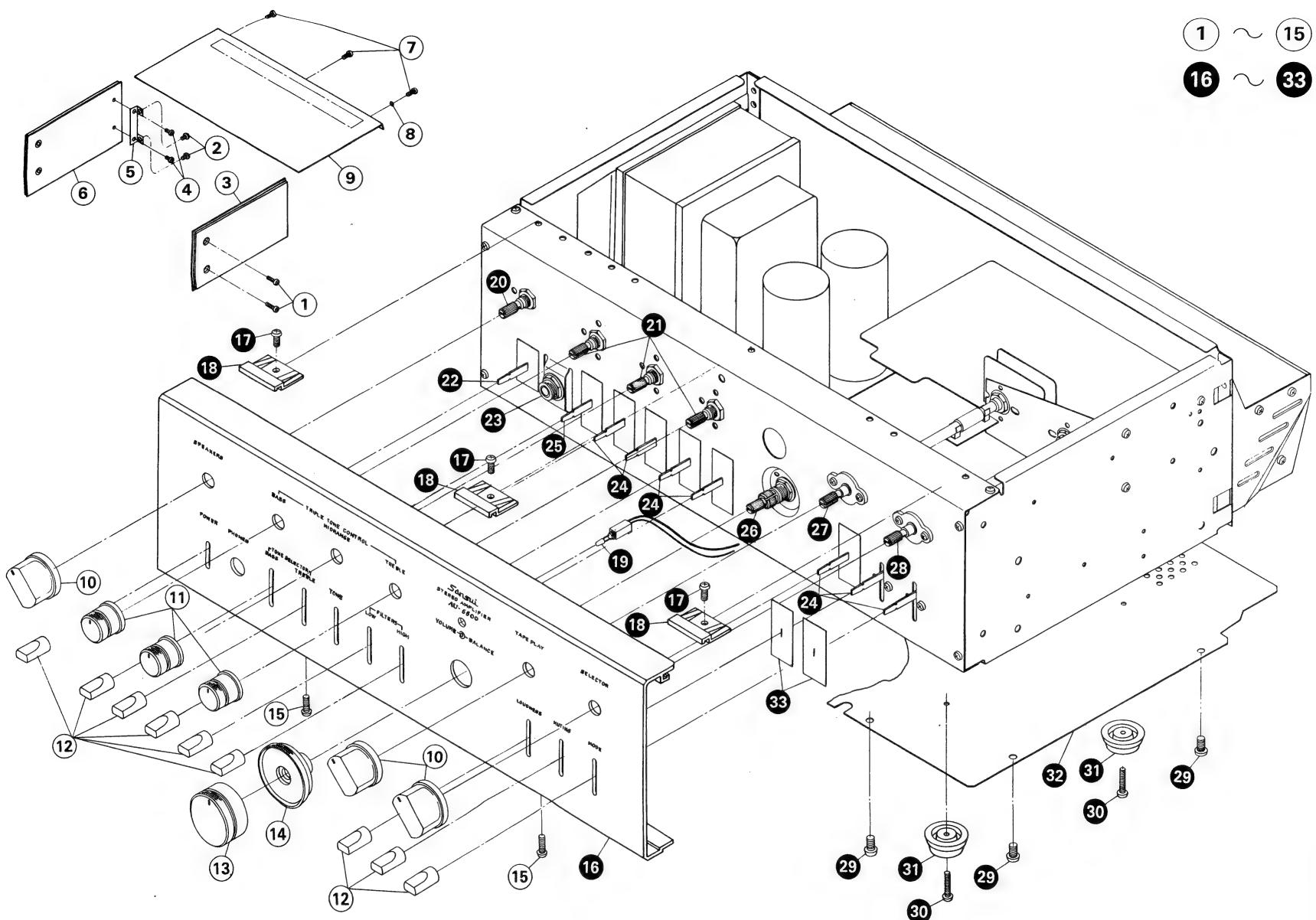
## 5-7. Other Parts (Front Side)

### Parts List

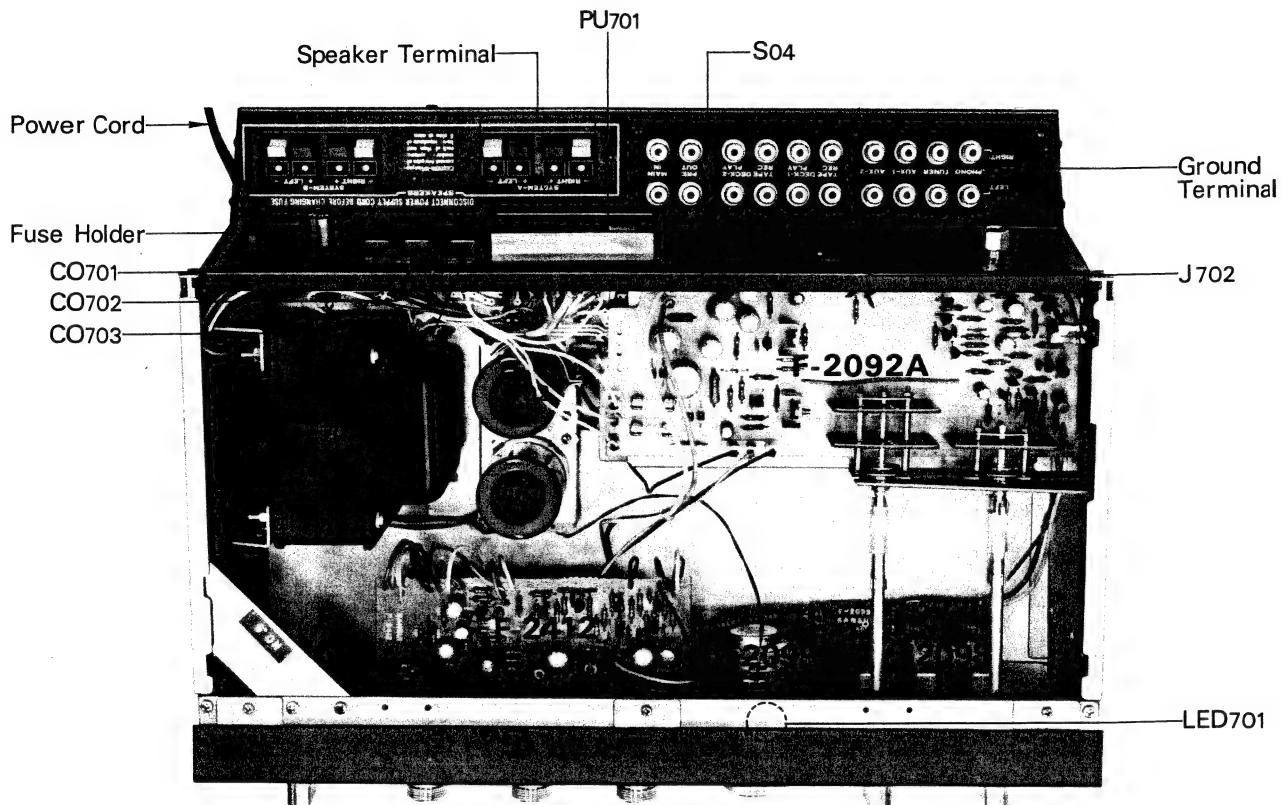
Parts No.	Stock No.	Description
1	5101161	Binding Head Screw, M4×6
2	5109222	Binding Head Tapping Screw, M3×8
3	5309270	Side Panel (Right)
4	5109121	Binding Head Tapping Screw, M3×6
5	5269830	Side Panel Retainer
6	5309260	Side Panel (Left)
7	5109222	Binding Head Tapping Screw, M3×8
8	5122540	Toothed Lock Washer (External), 3φ
9	5006340	Metal Bonnet
10	5317880	S-5 Type Knob
11	5318041	S-5 Type Knob (Tone Control)
12	5326460	E-1 Type Knob
13	5318001	W0-3 Type Knob (Volume)
14	5318080	U-5 Type Knob (Balance)
15	5109222	Binding Head Tapping Screw, M3×8
16	{ 5309220 5269800 }	Front Panel
17	5109222	Holder (Light Emitted Diode)
18	5269880	Binding Head Tapping Screw, M3×8
19	7726080	Stopper (Front Panel)
20	1101560, 1	Light Emitted Diode (SDB-501A-RD)
21	1015110, 1	Rotary Switch Y-1-4-4 (Speakers)
22	1170330	50k $\Omega$ (B)×2 Tone Control Volume
23	2430190	Lever Switch (Power)
24	1170340	Headphones Jack
25	1170360	Lever Switch
26	1060320	Lever Switch
27	1102560	250k $\Omega$ (MN, B)×4 Volume, Balance
28	1101540	Volume
29	5109222	Rotary Switch SRE-2-6-7 (Tape Play)
30	5166520	Rotary Switch SRE-1-2-4 (Selector)
31	5516940	Binding Head Tapping Screw, M3×8
32	5058221	Washer Head Tapping Screw, M3×12
33	5047460	Foot
		Bottom Plate
		Masking (Lever Switch)

### Abbreviations

C.R.	: Carbon Resistor	B.P.E.C.	: Bi-Polar Electrolytic Capacitor
S.R.	: Solid Resistor	C.C.	: Ceramic Capacitor
Ce.R.	: Cement Resistor	Mi.C.	: Mica Capacitor
M.R.	: Metallized Film Resistor	O.C.	: Oil Capacitor
M.C.	: Mylar Capacitor	P.C.	: Polystyrene Capacitor
E.C.	: Electrolytic Capacitor	T.C.	: Tantalum Capacitor



## 5-8. Other Parts (Top Side)

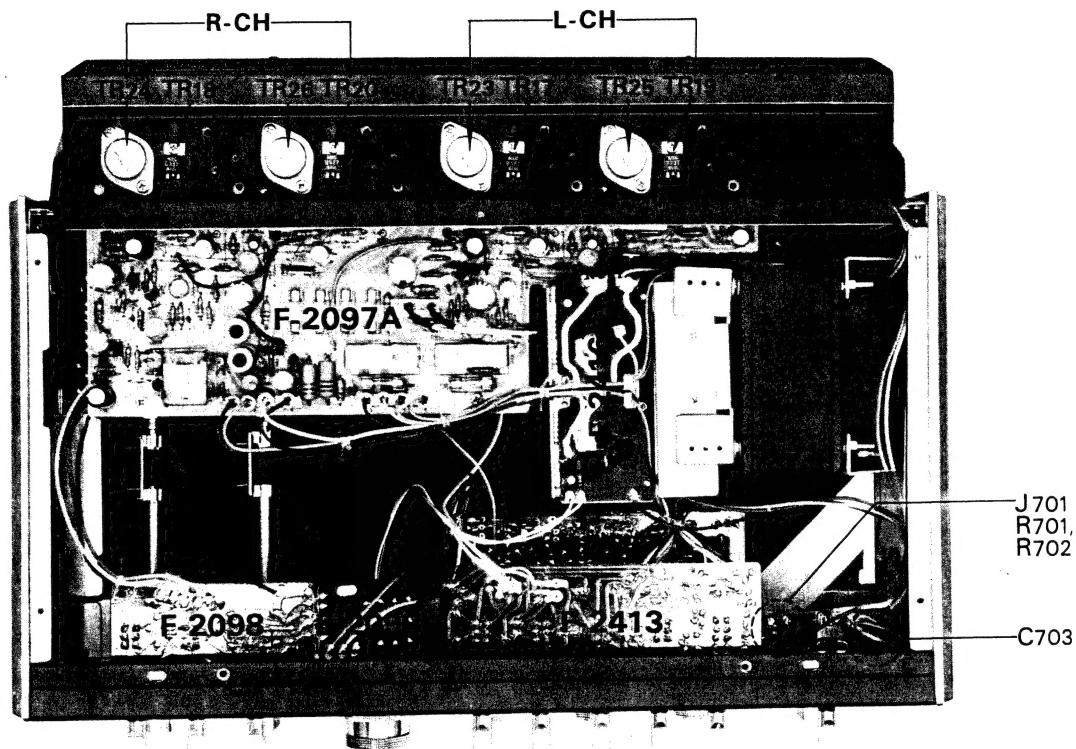


### Parts List

Parts No.	Stock No.	Description
C701	0559321	6800 $\mu$ F } 50V E.C.
C702	0559321	6800 $\mu$ F }
LED701	7726080	SDB-501A-RD Light Emitted Diode
J702	2090040	DIN Jack
S04	1110280	SSB02230 Slide Switch
CO701	2450050	
CO702	2450050	
CO703	2450050	AC Outlet
F701	{ 0431270 0431240 2300060	4A Power Fuse (100~117V) 2A Power Fuse (220~240V) Fuse Holder

Parts No.	Stock No.	Description
T701	4002140	Power Transformer
PU01	{ 2410080 2410090	Voltage Selector, socket Voltage Selector, plug
	2290100	4P Speaker Terminal
	3800020	Power Cord (KP-200)
	2230050	Ground Terminal

## 5-9. Other Parts (Bottom Side)



### Parts List

Parts No.	Stock No.	Description
TR17	0308441, 2	2SD382 (M, L)
TR18	0308441, 2	2SD382 (M, L)
TR19	0303271, 2	2SB537 (M, L)
TR20	0303271, 2	2SB537 (M, L)
TR23	0306701	2SC898 (B)
TR24	0306701	2SC898 (B)
TR25	0300671, 2	2SA758 (B, C)
TR26	0300671, 2	2SA758 (B, C)
C703	0659801	0.01μF 1.4kV C.C.
R701	0104221	220Ω }
R702	0104221	220Ω } 1W C.R.
J701	2430190	Headphone Jack

#### Abbreviations

C.R.	: Carbon Resistor
S.R.	: Solid Resistor
Ce.R.	: Cement Resistor
M.R.	: Metallized Film Resistor
M.C.	: Mylar Capacitor
E.C.	: Electrolytic Capacitor
BP.E.C.	: Bi-Polar Electrolytic Capacitor
C.C.	: Ceramic Capacitor
Mi.C.	: Mica Capacitor
O.C.	: Oil Capacitor
P.C.	: Polystyrene Capacitor
T.C.	: Tantalum Capacitor

## 6. REPLACEMENT OF POWER TRANSISTORS

- 1) Remove 4 pcs-screws installing on left (or right) side panel.
- 2) Remove 11 pcs-screws installing on bottom plate.
- 3) Remove all connectors and screws, ① and ② (See Fig. 6-1) installing on F-2097A.
- 4) Remove screw, ③, ④, ⑤ and ⑥ (See Fig. 6-2) installing heat sink.
- 5) Remove driver & power supply circuit board ass'y (F-2097A), then replace the transistors with new ones.

Fig. 6-1

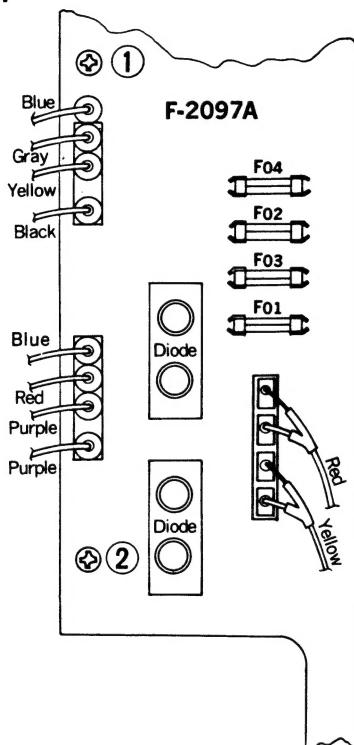
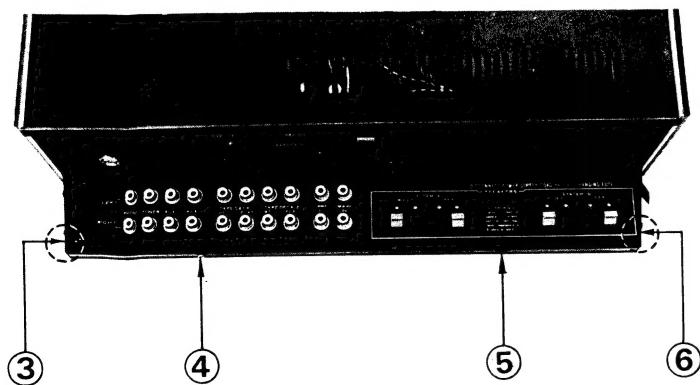
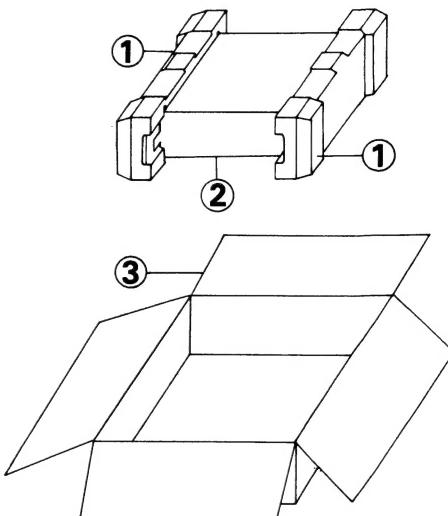


Fig. 6-2



## 7. PACKING LIST

Parts No.	Stock No.	Description
1	9027810	Stylofoam Packing
2	9116152	Vinyl Cover
3	9008111	Carton Case

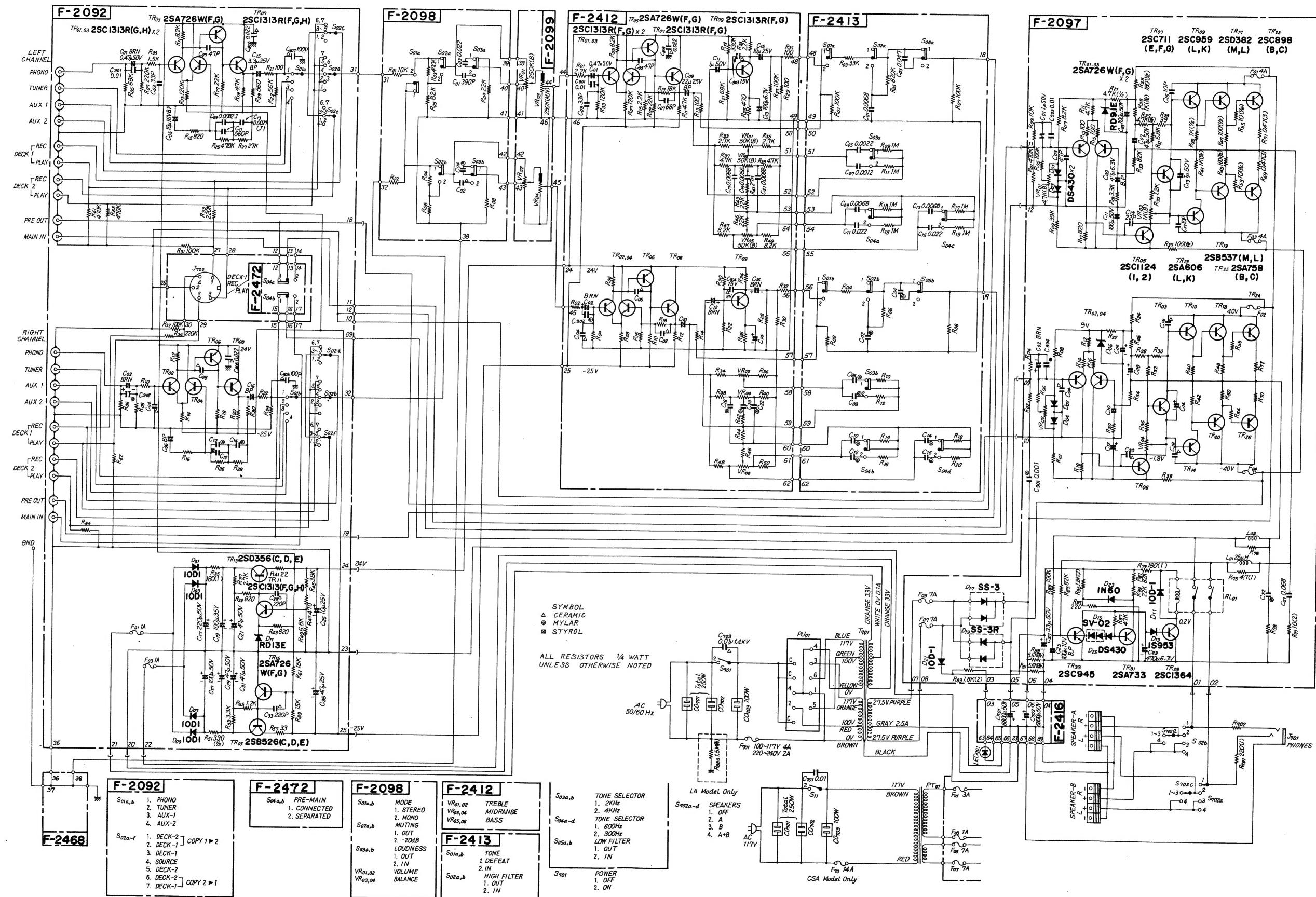


## 8. ACCESSORY PARTS LIST

Stock No.	Description
0433630	4A Quick Acting Fuse
5066250	Pin Plug Cover
9208270	Operating Instructions
9228270	Operating Instruction Sheet

## **9. SCHEMATIC DIAGRAM**

\* Design and specifications subject to change without notice for improvements.



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